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PATENT

PROVISIONAL DESIGN
 UTILITY PCT


Application No.: To be Assigned Date: April 23, 2001
Client/Matter No.: 031676.0212 Client: Martek Biosciences
Inventor(s): Kirk Emil APT et al Atty/Sec.: LHP/nb
TROPIC CONVERSION OF OBLIGATE PHOTOTROPHIC ALGAE THROUGH
Title: METABOLIC ENGINEERING

The following has been received in the U.S. Patent and Trademark Office on the date stamped hereon:

- Utility Patent Application Transmittal Cover
- Specification (54 pages, incorporating 3 sheets of claims (1-22) and an abstract
- 6 Sheets of Formal Drawings (Figures 1-7)
- Unexecuted Declaration and Power of Attorney for Patent Application (3 pages)

Return When Application Number Is Assigned

Please return card, indicating receipt date and Application No. if applicable, of the following :

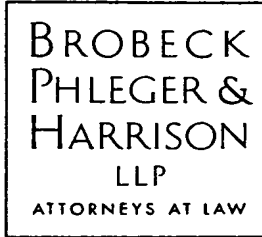
<input type="checkbox"/>	PROVISIONAL	<input type="checkbox"/>	DESIGN	J1000 U.S. PTO	
<input checked="" type="checkbox"/>	UTILITY	<input type="checkbox"/>	PCT	09/839536	PATENT
					
				04/23/01	

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INTELLECTUAL PROPERTY DEPARTMENT
 1333 H STREET, N.W.
 SUITE 800
 WASHINGTON, D.C. 20005

April 23, 2001

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket Number: 031676.0212

First Named Inventor: Kirk Emil APT et al

Title: **TROPHIC CONVERSION OF OBLIGATE PHOTOTROPHIC ALGAE THROUGH METABOLIC ENGINEERING**

TO: **BOX PATENT APPLICATION**
 Commissioner for Patents
 Washington, D.C. 20231

Sir:

Attached are the following for filing with the U.S. Patent and Trademark Office:

- 1. Fee Transmittal Form (original and duplicate)
- 2. Specification - Total Pages: 54 (Including Abstract)

CLAIMS AS FILED						
	Claims Filed	Basic Fee Claims	Extra	Rate		Amount
				Large Entity	Small Entity	
Total Claims	22	20	2	\$ 18.00	\$ 9.00	\$18.00
Independent Claims	5	3	2	\$ 80.00	\$ 40.00	\$80.00
First Presentation of Multiple Dependent Claims				\$ 270.00	\$ 135.00	\$
BASIC FEE				\$ 710.00	\$ 355.00	\$355.00
TOTAL FILING FEE						\$453.00

- 3. Drawings - Total Sheets: 6 (Fig(s). 1-7)
- 4. Oath or Declaration - Total Pages: 3
 - a. Newly executed (original or copy)
 - New (unexecuted)
 - b. Copy from a prior application
 (for continuation/divisional with Box 17 completed)

- i. DELETION OF INVENTOR(s):
Signed statement attached deleting inventor(s) named in prior application.
5. Incorporation By Reference (useable if Box 4b is marked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. Computer Readable Copy
- b. Paper Copy (identical to computer copy)
- c. Statement verifying identity of above copies
8. Assignment and Assignment Recordation Form
9. 37 C.F.R. 3.73(b) Statement Power of Attorney
10. English Translation Document (if applicable)
11. Information Disclosure Statement with PTO-1449 and References
- Copies of Information Disclosure Statement Citations
12. Preliminary Amendment
13. Return Receipt Postcard
14. Small Entity Status Claimed: Independent Inventor
 Small Business Concern
 Non-Profit Organization
- Statement Enclosed
- Statement Filed in Prior Application; Status Still Proper and Desired
15. Foreign Priority is Claimed as Follows:
-
-
- If Foreign Priority is Claimed, Certified Copy of the Above Priority Document(s) is Submitted Herewith

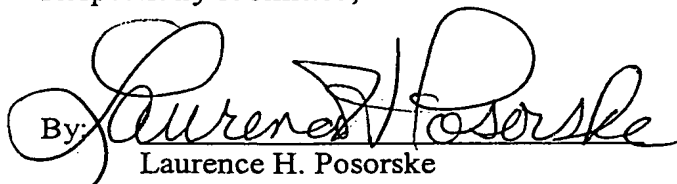


16. Other: _____
17. Continuation Divisional Continuation-in-Part of
Prior Application No.: _____ filed _____
- Complete Application Based on Provisional Application No.: 60/198,742
filed April 21, 2000
18. A new power of attorney or authorization of agent (PTO/SB/81) is as follows:
- The power of attorney is to: Rodger L. Tate, Reg. No. 27,399; Anthony W. Shaw, Reg. No. 30,104; James Remenick, Reg. No. 36,902; Cono A. Carrano, Reg. No. 39,623; Michael J. Songer, Reg. No. 39,841; Laurence H. Posorske, Reg. No. 34,698; Floyd B. Chapman, Reg. No. 40,555; David J. Kulik, Reg. No. 36,576; Robert A. King, Reg. No. 42,738 and Trevor Q. Coddington, Reg. No. 46,633.
19. Please address all correspondence to:
- CUSTOMER NUMBER

26118

- Laurence H. Posorske**
Intellectual Property Department
Brobeck, Phleger & Harrison LLP
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Suite 800
Washington, DC 20005
20. A check in the amount of \$ _____ is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any such variance to **Deposit Account No. 50-1640**.
- The Commissioner is hereby authorized to charge any variance between the amount enclosed and the Patent Office charges to **Deposit Account No. 50-1640**.

Respectfully submitted,

By: 
Laurence H. Posorske
Registration No. 34,968

LHP:nb
Enclosures